

Star SAFIRE Family



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VENDOR DESCRIPTION

The FLIR Systems, Inc. AN/AAQ-22 Star SAFIRE II is a multi-sensor thermal imaging system unit built to perform reconnaissance, search and rescue (SAR), navigation, border security, drug interdiction, maritime patrol, and law enforcement missions. A proven design in civil and military use around the world, the Star SAFIRE II meets mission-critical performance requirements from a wide range of air, sea, and land-based platforms. Some of the Star SAFIRE II's key features include:

- Microscanned 3rd-generation InSb Focal Plane Array thermal imaging detector
- Triple optical field-of-view (FOV) infrared telescope
- 5-axis stabilized thermal imaging from a 15" Turret FLIR Unit (TFU)
- Multiple payloads for mission-specific configuration: CCD Daylight Camera, Spotter Scope, Laser Rangefinder, Laser Pointer, Covert Active Laser Illuminator (CALI)
- Hermetically sealed TFU
- MIL-STD-810 and MIL-STD-461 qualified



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Business Category: Small Business

EOIR

Hardware – Central Electronic Unit (CEU)		Gimbal
RF Frequency: N/A	Operating Temp.: -40°C to +55°C	Height: 1.46 ft Weight: 44.5 kg
Power: 28VDC per MIL-STD-704D, 360W maximum steady state	Storage Temp.: -55°C to +71°C	Stabilization: Proprietary
Weight: 29 lbs max.	Interface: RS-232, RS-422, & MIL-STD 1553	Pointing Accuracy: Proprietary
Dimensions: 194.3mm x 258.1mm x 320mm	Bandwidth Required: N/A	Angular Speed: N/A
Internal Volume: 0.54 ft ³	TCDL Compatibility – Yes (1553, RS-422, RS-232, ARINC 429, additional interface capabilities available upon request)	Azimuth Coverage: 360° continuous
Cooling: Ambient air	MTBF: > 1500 hrs	Elevation Coverage: +30° - 120°
LOS Stabilization: N/A	MTTR: N/A (0.5 hrs to replace any component)	Slew Rate Azimuth: 0-60°/sec.
Auto Video Tracker: Yes	Maintainability: BIT @ O Level to Depot level	Slew Rate Elev: 0-60°/sec.
Operating Altitude: to 41,000' MSL	Pd: N/A	TLE: N/A
Operating Speed: 0 to 405 knots	Pr: N/A	ATC or ATR or ATI: ½ ATR

Electro-Optical (EO)	Infrared (IR)
Type: 1-chip CCD	Type: MWIR 3-5 InSb / Staring Array
Resolution: 460 Lines (H)	Resolution: 640x480 (microscanned)
Range: 26.5 km	Range: 24.8 km (APC target @ .82 trans, 50% POD)
Angular Coverage: See FOV	Angular Coverage: See FOV
Zoom Rate: Fixed	Cooling Method: Closed Cycle
Modes of Operation: Normal & Low-Light	Modes of Operation: Manual Gain, Auto Gain, Enhanced Gain, Inertial Point, Auto Track
Target Size: APC	Target Size: APC
Field of View: 0.4°(H) Wide – 0.3°(V) Narrow	WFOV: 25.2° H X 18.8° V
Sensitivity: 4.5 lux @ f/1.2	MFOV: 3.4° H X 2.6° V
Color or B/W: Color	NFOV: 0.87° H X 0.66° V